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APPLICATION N	IO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/636,112		08/07/2003	Malcolm David Dick Lambert	DP-303841	1579
22851	7590	07/06/2006		EXAMINER	
DELPHI TECHNOLOGIES, INC.				KIM, CHRISTOPHER S	
M/C 480- PO BOX		•		ART UNIT	PAPER NUMBER
TROY, N	TROY, MI 48007			3752	
			DATE MAILED: 07/06/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

			(
	Application No.	Applicant(s)	€				
	10/636,112	LAMBERT ET AL.					
Office Action Summary	Examiner	Art Unit					
	Christopher S. Kim	3752					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence add	ress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was a failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this con D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 24 Ag	<u>oril 2006</u> .						
<u> </u>	action is non-final.						
3) Since this application is in condition for allowan	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 16-19 and 21-39 is/are pending in the	application.		•				
4a) Of the above claim(s) <u>16-19,21-23,27-29 ar</u>	nd 37-39 is/are withdrawn from co	onsideration.					
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>24-26 and 31-36</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>05 December 2005</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
TI) The bath of declaration is objected to by the Ex	animer. Note the attached Office	Action of form PTC	J-132.				
Priority under 35 U.S.C. § 119							
12) △ Acknowledgment is made of a claim for foreign a) △ All b) □ Some * c) □ None of:)-(d) or (f).					
1. Certified copies of the priority documents2. Certified copies of the priority documents		on No. 00/654 459					
•	, ,						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
	·						
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)						

Paper No(s)/Mail Date

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

6) Other: _

5) Notice of Informal Patent Application (PTO-152)

Application/Control Number: 10/636,112 Page 2

Art Unit: 3752

DETAILED ACTION

Response to Amendment

1. The response filed April 24, 2006 is acknowledged.

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Election/Restrictions

3. Claims 16-19, 21-23, 27-29, 37-39 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention/species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on May 20, 2005.

Regarding claim 39, it appears that the "second coating provided on another part of the nozzle body" is only readable on proposed figure 5, as suggested by the proposed figures and the amendments to the specification. The restriction requirement mailed on April 20, 2005 identified this species as Species E.

Drawings

4. The proposed drawing showing new figures 4 and 5 are objected to because they contain new matter. The disclosure as originally filed fails to disclose the specific layer arrangement shown in figures 4 and 5.

abeyance.

The proposed drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 14b, 14c and 14e. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in

Page 3

5. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "multi-layer" recited in claim 24; and the "additional substrate material" recited in claim 36 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure

Page 4

Art Unit: 3752

is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

6. Claims 24-26, 31-35 are rejected under 35 U.S.C. 102(b) as being anticipated by Susumu (10-274134).

Susumu discloses an injection nozzle comprising: a nozzle body 31; a first coating 37; a further coating 36.

Claim Rejections - 35 USC § 103

7. Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Susumu (10-274134) in view of Voss et al. (5,987,882).

Susumu discloses the limitations of the claimed invention with the exception of the additional substrate material. Voss et al. discloses, in column 13, lines 14-22, an additional substrate material (a bond layer) between a ceramic layer and a metal

Art Unit: 3752

surface. It would have been obvious to a person having ordinary skill in the art at the time of the invention to have provided an additional substrate material to the device of Susumu as taught by Voss et al. to increase adhesion.

Response to Arguments

8. Applicant's arguments filed April 24, 2006 have been fully considered but they are not persuasive.

Applicant argues that Susumu does not show a multi-layer coating arranged so as to reduce the temperature of at least a part of the nozzle body. Such a resulted is inherent in the nozzle of Susumu.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 3752

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher S. Kim whose telephone number is (571) 272-4905. The examiner can normally be reached on Monday - Thursday, 6:30 AM -5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Scherbel can be reached on (571) 272-4919. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Christopher S. Kim-**Primary Examiner** Art Unit 3752

CK